

KIA MOTORS CORPORATION

EXECUTIVE ORDER A-314-0063

New Passenger Cars, Light-Duty Trucks
and Medium-Duty Vehicles

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code (HSC), Div. 26, Part 5, Chap. 2; and pursuant to the authority vested in the undersigned by HSC Sections 39515 & 39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED:

That the following exhaust and evaporative emission control systems produced by the manufacturer are certified as described below. Production vehicles shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	TEST GROUP VEHICLE TYPE		EXHAUST EMISSION STANDARD CATEGORY	USEFU (mil		IN- COMP (*=N/A or A/E=ex	MEDIATE USE LIANCE full in-use; h. / evap. iate in-use)	FUEL TYPE		
2006	6KMXV02.4NW5	Passenger Car	"LEV II" Ultra Low Emission Vehicle (LEV II	EXH / ORVR	EVAP	EXH	EVAP	Gasoline (Tier 2		
		•	ULEV)	120K	150K	*	E	Unleaded)		
No.		PECIAL FEATURES		EVAPORATIVE FAMILY (EVAF) DISPLACEMENT (L)						
1	WU-TWC,TWC	6KMXR0	120PDN							
*					_					
			*				2.4			
•		•			******					

See the Attachment for Vehicle Models, Evaporative Family, Engine Displacement, Emission Control Systems, Phase-In Standards, OBD Compliance, Emission Standards and Certification Levels, and Abbreviations.

BE IT FURTHER RESOLVED:

That the exhaust and the evaporative emission standards and the certification emission levels for the listed vehicles are as listed on the Attachment. Compliance with the 50° Fahrenheit testing requirement may have been met based on the manufacturer's submitted compliance plan in lieu of testing. Any debit in the manufacturer's "NMOG Fleet Average" (PC or LDT) or "Vehicle Equivalent Credit" (MDV) compliance plan shall be equalized as required.

BE IT FURTHER RESOLVED:

That for the listed vehicle models, the manufacturer has attested to compliance with Title 13, California Code of Regulations, (13 CCR) Sections 1965 [emission control labels], 1968.2 [on-board diagnostic, full or partial compliance], 2035 et seq. [emission control warranty], 2235 [fuel tank fill pipes and openings] (gasoline and alcohol fueled vehicles only), and "High-Altitude Requirements" and "Inspection and Maintenance Emission Standards" (California Exhaust Emission Standards and Test Procedures for 2001 and Subsequent Model PC, LDT and MDV).

Vehicles certified under this Executive Order shall conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this 2014 day of December 2005.

Allen Lyons, Chief

Mobile Source Operations Division

New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles

ATTACHMENT

EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

(For bi-, dual- or flexible-fueled vehicles, the STD and CERT in parentheses are those applicable to testing on gasoline test fuel.)

	NMOG FLEET NMOG @ RAF=* AVERAGE [g/mi] CH4 RAF = *		INMOG OF	CH4=methane; NMOG=non-CH4 organic gas; NMHC=non-CH4 hydrocarbon; CO=carbon monoxide; NOx=oxides of nitrogen; HCHO=formaldehyde; PM=particulate matter; RAF=reactivity adjustment factor; 2/3 D [g/test]=2/3 day diurnal+										
CERT	STD	NMOG	NMHC	INMHC	not-soak; ki	L (g/mij=runr	iing loss; OR	ueling vapor n	ding vapor recovery; g=gram; mg=milligram lest procedure					
	CERT CERT	[g/mi]	CO [g/mi]		NOx [g/mi]		HCHO [mg/mi]		PM [g/mi]		Hwy NOx [g/mi]			
0.0-10	0.040	[g/mi]	[g/mi]		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
	@ 50K	0.021	*	0.040	0.3	1.7	0.01	0.05	0.3	8.	٠	•	0.01	0.07
	@ UL	0.026	*	0.055	0.4	2.1	0.02	0.07	0.4	11.	*	*	0.01	0.09
() () () () () () () () () ()	50°F & 4K	0.060	*	0.080	0.3	1.7	0.01	0.05	1.1	16.		*	*	•

CO [g/mi] @ 20°F & 50K		ne spropersion (NMHC+NOx [NMHC+NOx [g/mi] [US06]		CO [g/mi] [US06]		NMHC+NOx [g/mi] [SC03]		CO [g/mi] [SC03]	
(0) 2	U-F & SUR		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
CERT	1.4	SFTP @ 4000 miles		*	*	٠	0.02	0.14	2.7	8.0	0.02	0.20	0.2	2.7
STD	10.0	SFTP @ * miles	*	*	*	*	•	•	•	*	*	•	*	*

Evaporative Family	3-Days Diurn (grams/te			ai + Hot Soak est) @ UL		ng Loss nile) @ UL	On-Board Refueling Vapor Recovery (grams/gallon) @ UL			
	CERT	STD	CERT	STD	CERT	STD	CERT	STD		
6KMXR0120PDN	0.29	0.50	0.42	0.65	0.02	0.05	0.01	0.20		
•	*	*	*	*	•	*	•	*		
*	*	*	+	*	*	*	*	•		
*	*		*	•	*	*	*	•		

^{* =} not applicable; UL=useful life; PC=passenger car; LDT=light-duty truck; MDV=medium-duty vehicle; ECS= Emission Control System; STD= Standard; CERT= Certification; LVW=loaded vehicle weight; ALVW=adjusted LVW; LEV=low emission vehicle; TLEV=transitional LEV; ULEV=ultra LEV; SULEV=super ULEV; TWC=3-way catalyst; ADSTWC=adsorbing TWC; WU=warm-up catalyst; OC=oxidizing catalyst; OZS=oxygen sensor; HO2S=beated OZS; AFS/HAFS=air- fuel ratio sensor / heated AFS; EGR=exhaust gas recirculation; AIR=secondary air injection; PAIR=pulsed AIR; MFI= multiport fuel injection; SFI=sequential MFI; TBI=throttle body injection; DGI=direct gasoline fuel injection; TC/SC= turbo/super charger; CAC=charge air cooler; OBD {F}/(P)=full/partial on-board diagnostic; DOR=direct ozone reducing; prefix 2=parallel; (2) suffix=series; CNG/LNG=compressed/liquefied natural gas; LPG=liquefied petroleum gas; E85="85%" Ethanol Fuel;

2006 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MAKE MODEL		ECS NO.	ENGINE SIZE (L)	INTERMEDIATE IN-USE COMPLIANCE ("=N/A or full in-use; A/E=axh. / evap. intermediate in-use)		PHASE-IN STD.	OBD II
			1		EXH	EVAP		
KIA	OPTIMA	6KMXR0120PDN	1	2.4	*	E	SFTP	Fuil